### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

#### LISTING OF CLAIMS:

- 1. (currently amended): A resist composition comprising:
- (A) a compound capable of generating an active seed upon irradiation with one of an actinic ray and a radiation,
- (B) a compound capable of reacting with the active seed generated from the compound (A) and/or performing electron transfer to generate an active seed different from the active seed generated from the compound (A), and
- (C) a compound capable of performing electron transfer from the active seed generated from the compound (B) to generate an acid,

and the following component (D1) or (D2):

- (D1) an alkali-soluble resin having a phenol skeleton,
- (D2) a resin capable of increasing its solubility in an alkali developer by the action of an acid,

wherein supposing that the 1/2 wave of the oxidation potential of the active seed generated from the compound (B) is  $E_{pa}$  and the 1/2 wave of the reduction potential of the active seed generated from the compound (C) is  $E_{pc}$ , the relationship:  $E_{pc} - E_{pa} > 0$  is satisfied.

2. (original): The resist composition according to claim 1, wherein the compound (A) contains a structure represented by the following formula (a):

$$Ra - Rb - COO^{-}$$
 (a)

wherein Ra represents a hydrogen atom, a substituted or unsubstituted  $C_6$ - $C_{16}$  aryl group, a substituted or unsubstituted  $C_1$ - $C_{20}$  straight-chain, branched or cyclic alkyl group, -COO $^-$  or -SO $_3$ , and Rb represents a single bond, -C(=O)-, -NH- or -S(=O) $_2$ .

3. (currently amended): The resist composition according to claim 1, wherein the compound (A) is at least one <u>compound</u> selected from the group consisting of compounds represented by the formulae (a) and (I) to (IV) in combination:

$$R_{16}$$
  $R_{17}$   $R_{24}$   $R_{25}$ 
 $R_{20}$   $R_{22}$   $R_{23}$ 
 $R_{18}$   $R_{19}$   $R_{23}$   $R_{24}$   $R_{25}$  (II)

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$$R_{42} - N^{+} - R_{40}$$
 (IV).

wherein R<sub>1</sub> to R<sub>37</sub> each independently represents a hydrogen atom, a straight-chain, branched or cyclic alkyl or alkoxy group, a hydroxyl group, a halogen atom or –S-R<sub>38</sub> in which R<sub>38</sub> represents a straight-chain, branched or cyclic alkyl or aryl group, with the proviso that two or more of R<sub>1</sub> to R<sub>15</sub>, R<sub>16</sub> to R<sub>27</sub> and R<sub>28</sub> to R<sub>37</sub> may be bonded to each other to form a ring containing one or more selected from the group consisting of a single bond, a carbon atom, an oxygen atom, a sulfur atom and a nitrogen atom, and

 $R_{39}$  to  $R_{42}$  each independently represents a hydrogen atom or a straight-chain, branched or cyclic alkyl or aryl group.

4. (currently amended): The resist composition according to claim 1, wherein the compound (A) is represented by the following formula (V):

$$R_{4}$$
 $R_{5}$ 
 $R_{6}$ 
 $R_{6}$ 
 $R_{1}$ 
 $R_{15}$ 
 $R_{10}$ 
 $R_{11}$ 
 $R_{12}$ 
 $R_{13}$ 
 $R_{13}$ 
 $R_{14}$ 
 $R_{15}$ 
 $R_{14}$ 
 $R_{15}$ 

wherein Ra represents a hydrogen atom, a substituted or unsubstituted  $C_6$ - $C_{16}$  aryl group, a substituted or unsubstituted  $C_1$ - $C_{20}$  straight-chain, branched or cyclic alkyl group, -COO or  $-SO_3$ ,

Rc represents CH2, CHRa or C(Ra)2, and

 $R_1$  to  $R_{15}$  each independently represents a hydrogen atom, a straight-chain, branched or cyclic alkyl or alkoxy group, a hydroxyl group, a halogen atom or  $-S-R_{38}$  in which  $R_{38}$  represents a straight-chain, branched or cyclic alkyl or aryl group, with the proviso that two or more of  $R_1$  to  $R_{15}$  may be bonded to each other to form a ring containing one or more selected from the group consisting of a single bond, a carbon atom, an oxygen atom, a sulfur atom and a nitrogen atom.

5. (original): The resist composition according to claim 1, wherein the compound (A) is represented by the following formula (VI) or (VII):

$$R_{4}$$
 $R_{2}$ 
 $R_{6}$ 
 $R_{6}$ 
 $R_{1}$ 
 $R_{10}$ 
 $R_{11}$ 
 $R_{12}$ 
 $R_{13}$ 
 $R_{13}$ 
 $R_{14}$ 
 $R_{15}$ 
 $R_{14}$ 
 $R_{15}$ 
 $R_{15}$ 
 $R_{15}$ 

$$R_{42} = N^{+} - R_{40} - R_{a} - R_{c} = O^{-}$$
 (VII)

wherein Ra represents a hydrogen atom, a substituted or unsubstituted  $C_6$ - $C_{16}$  aryl group, a substituted or unsubstituted  $C_1$ - $C_{20}$  straight-chain, branched or cyclic alkyl group, -COO or  $-SO_3$ ,

Rc represents CH<sub>2</sub>, CHRa or C(Ra)<sub>2</sub>,

 $R_1$  to  $R_{15}$  each independently represents a hydrogen atom, a straight-chain, branched or cyclic alkyl or alkoxy group, a hydroxyl group, a halogen atom or  $-S-R_{38}$  in which  $R_{38}$  represents a straight-chain, branched or cyclic alkyl or aryl group, with the proviso that two or more of  $R_1$  to  $R_{15}$  may be bonded to each other to form a ring containing one or more selected from the group consisting of a single bond, a carbon atom, an oxygen atom, a sulfur atom and a nitrogen atom, and

 $R_{39}$  to  $R_{42}$  each independently represents a hydrogen atom or a straight-chain, branched or cyclic alkyl or aryl group.

- 6. (original): The resist composition according to claim 1, wherein  $E_{pc}$  of the compound (C) is higher than  $-1.15~\rm{V}$ .
- 7. (currently amended): The resist composition according to claim 1, wherein the compound (C) is a compound having a partial structure represented by the following formula (VIII) and a counter ion capable of generating an acid upon irradiation with one of an actinic ray and a radiation:

wherein X represents a sulfur atom or an iodine atom, with the proviso that the plurality of X's may be the same or different,

 $R_1$  and  $R_2$  each independently represents an alkyl or an aryl group, with the proviso that the plurality of  $R_1$ 's, if any, may be the same or different, the plurality of  $R_2$ 's, if any, may be the same or different, and  $R_1$  and  $R_2$ ,  $R_1$  and  $R_2$ , and  $R_3$  and  $R_4$  and  $R_5$  and  $R_6$  and  $R_7$  and  $R_8$  and

A and B each independently represents a hydrocarbon structure connecting between  $X^{+}$ 's, with the proviso that at least one of connections of  $X^{+}$ 's with A or B indicates a structure in which  $X^{+}$ 's connected are in the same conjugation and the plurality of A's, if any, may be the same or different,

l represents 0 or 1, with the proviso that when X is a sulfur atom, the number l of  $R_1$ 's connected to  $X^+$  represents 1, and when X is an iodine atom, the number l of  $R_1$ 's connected to  $X^+$  represents 0,

m represents an integer of from 0 to 10, and

- 8. (original): The resist composition according to claim 1, wherein the compound (B) is a phenol derivative containing from 1 to 10 benzene ring atomic groups per molecule and having at least one hydroxymethyl group and at least one alkoxymethyl group per molecule.
- 9. (original): The resist composition according to claim 1, wherein the compound (B) contains a structure represented by the following formula (b):

$$Rf - \left( -C = CH_2 \right)_n$$
 (b)

wherein Rf represents a substituted or unsubstituted aryl group, a substituted or unsubstituted straight-chain, branched or alicyclic hydrocarbon group or a combination thereof, which may have a carbonyl group, an oxygen atom or a sulfur atom in the middle portion thereof, and n represents an integer of from 1 to 10.

- 10. (original): The resist composition according to claim 1, wherein the compound (B) is a cyclic ether compound.
- 11. (original): The resist composition according to claim 1, further comprising (E) a nitrogen-containing basic compound.
- 12. (original): The resist composition according to claim 1, wherein the actinic ray or radiation is selected from the group consisting of electron ray, X ray and EUV ray.

- 13. (currently amended): A negative-working resist composition comprising:
- (A) at least one <u>compound</u> selected from the group consisting of compounds represented by the formulae (a) and (I) to (IV) in combination,
- (B) a crosslinking agent capable of carrying out addition reaction with the alkali-soluble resin which is the component (D1) by the action of an acid,
- (C) a compound having a partial structure represented by the following formula (VIII) and a counter ion capable of generating an acid upon irradiation with one of an actinic ray and a radiation, and
  - (D1) an alkali-soluble resin having a phenol skeleton:

$$Ra - Rb - COO^{-}$$
 (a)

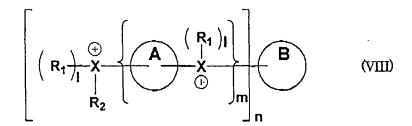
wherein Ra represents a hydrogen atom, a substituted or unsubstituted  $C_6$ - $C_{16}$  aryl group, a substituted or unsubstituted  $C_1$ - $C_{20}$  straight-chain, branched or cyclic alkyl group, -COO or  $-SO_3$ , and Rb represents a single bond, -C(=O)-, -NH- or  $-S(=O)_2$ :

$$R_{16}$$
  $R_{17}$   $R_{24}$   $R_{25}$   $R_{20}$   $R_{22}$   $R_{23}$   $R_{24}$   $R_{25}$   $R_{25}$   $R_{21}$   $R_{23}$   $R_{24}$   $R_{25}$   $R_{25}$   $R_{25}$   $R_{26}$   $R_{27}$   $R_{28}$   $R_{28}$   $R_{33}$   $R_{34}$ 

$$R_{42} - N^{\downarrow} - R_{40}$$
 (IV).

wherein  $R_1$  to  $R_{37}$  each independently represents a hydrogen atom, a straight-chain, branched or cyclic alkyl or alkoxy group, a hydroxyl group, a halogen atom or  $-S-R_{38}$  in which  $R_{38}$  represents a straight-chain, branched or cyclic alkyl or aryl group, with the proviso that two or more of  $R_1$  to  $R_{15}$ ,  $R_{16}$  to  $R_{27}$  and  $R_{28}$  to  $R_{37}$  may be bonded to each other to form a ring containing one or more selected from the group consisting of a single bond, a carbon atom, an oxygen atom, a sulfur atom and a nitrogen atom, and

 $R_{39}$  to  $R_{42}$  each independently represents a hydrogen atom or a straight-chain, branched or cyclic alkyl or aryl group:



wherein X represents a sulfur atom or an iodine atom, with the proviso that the plurality of X's may be the same or different,

 $R_1$  and  $R_2$  each independently represents an alkyl or an aryl group, with the proviso that the plurality of  $R_1$ 's, if any, may be the same or different, the plurality of  $R_2$ 's, if any, may be the same or different, and  $R_1$  and  $R_2$ ,  $R_1$  and  $R_2$ , and  $R_3$  and  $R_4$  and  $R_5$  and  $R_6$  and  $R_7$  and  $R_8$  and

A and B each independently represents a hydrocarbon structure connecting between  $X^+$ 's, with the proviso that at least one of connections of  $X^+$ 's with A or B indicates a structure in which  $X^+$ 's connected are in the same conjugation and the plurality of A's, if any, may be the same or different,

I represents 0 or 1, with the proviso that when X is a sulfur atom, the number l of  $R_l$ 's connected to  $X^+$  represents 1, and when X is an iodine atom, the number l of  $R_l$ 's connected to  $X^+$  represents 0,

m represents an integer of from 0 to 10, and

n represents an integer of from 1 to 6, with the proviso that when m is 0, n represents an integer of not smaller than 2.

14. (currently amended): A negative-working resist composition comprising:

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- (A) at least one <u>compound</u> selected from the group consisting of compounds represented by the formulae (a') and (I) to (IV) in combination,
- (B) a crosslinking agent capable of carrying out addition reaction with the alkali-soluble resin which is the component (D1) by the action of an acid, and
- (C) a compound having a partial structure represented by the following formula (VIII) and a counter ion capable of generating an acid upon irradiation with one of an actinic ray and a radiation, and
  - (D1) an alkali-soluble resin:

$$Ra - O$$
 (a')

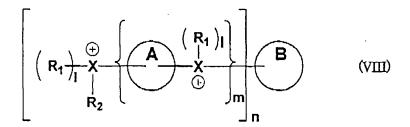
wherein Ra represents a hydrogen atom, a substituted or unsubstituted  $C_6$ - $C_{16}$  aryl group, a substituted or unsubstituted  $C_1$ - $C_{20}$  straight-chain, branched or cyclic alkyl group, -COO or  $-SO_3$ :

$$R_{16}$$
  $R_{17}$   $R_{24}$   $R_{25}$   $R_{20}$   $R_{22}$   $R_{23}$   $R_{24}$   $R_{25}$   $R_{25}$   $R_{21}$   $R_{23}$   $R_{24}$   $R_{25}$   $R_{25}$   $R_{26}$   $R_{27}$   $R_{28}$   $R_{28}$   $R_{28}$   $R_{28}$   $R_{33}$   $R_{34}$   $R_{34}$   $R_{34}$ 

$$R_{42} - N^{+} - R_{40}$$
 (IV).

wherein  $R_1$  to  $R_{37}$  each independently represents a hydrogen atom, a straight-chain, branched or cyclic alkyl or alkoxy group, a hydroxyl group, a halogen atom or  $-S-R_{38}$  in which  $R_{38}$  represents a straight-chain, branched or cyclic alkyl or aryl group, with the proviso that two or more of  $R_1$  to  $R_{15}$ ,  $R_{16}$  to  $R_{27}$  and  $R_{28}$  to  $R_{37}$  may be bonded to each other to form a ring containing one or more selected from the group consisting of a single bond, a carbon atom, an oxygen atom, a sulfur atom and a nitrogen atom, and

 $R_{39}$  to  $R_{42}$  each independently represents a hydrogen atom or a straight-chain, branched or cyclic alkyl or aryl group:



wherein X represents a sulfur atom or an iodine atom, with the proviso that the plurality of X's may be the same or different,

 $R_1$  and  $R_2$  each independently represents an alkyl or an aryl group, with the proviso that the plurality of  $R_1$ 's, if any, may be the same or different, the plurality of  $R_2$ 's, if any, may be the same or different, and  $R_1$  and  $R_2$ ,  $R_1$  and  $R_2$ , and  $R_3$  and  $R_4$  and  $R_5$  and  $R_6$  and  $R_7$  and  $R_8$  and

A and B each independently represents a hydrocarbon structure connecting between  $X^{+}$ 's, with the proviso that at least one of connections of  $X^{+}$ 's with A or B indicates a structure in which  $X^{+}$ 's connected are in the same conjugation and the plurality of A's, if any, may be the same or different,

I represents 0 or 1, with the proviso that when X is a sulfur atom, the number 1 of  $R_1$ 's connected to  $X^+$  represents 1, and when X is an iodine atom, the number 1 of  $R_1$ 's connected to  $X^+$  represents 0,

m represents an integer of from 0 to 10, and

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15. (currently amended): The negative-working resist composition according to claim 13, wherein the component (A) is at least one <u>compound</u> selected from the compounds represented by the formula (a) and the formula (I) or (II) in combination.

- 16. (currently amended): The <u>positive negative</u>-working resist composition according to claim 13, further comprising (E) a nitrogen-containing basic compound.
  - 17. (currently amended): A positive-working resist composition comprising:
- (A) at least one <u>compound</u> selected from the group consisting of compounds represented by the formulae (a) and (I) to (IV) in combination,
- (C) a compound having a partial structure represented by the following formula (VIII) and a counter ion capable of generating an acid upon irradiation with one of an actinic ray and a radiation, and
  - (D2) a resin increasing the solubility in an alkali developer by the action of an acid:

$$Ra - Rb - COO^{-}$$
 (a)

wherein Ra represents a hydrogen atom, a substituted or unsubstituted  $C_6$ - $C_{16}$  aryl group, a substituted or unsubstituted  $C_1$ - $C_{20}$  straight-chain, branched or cyclic alkyl group, -COO or -SO<sub>3</sub>, and Rb represents a single bond, -C(=O)-, -NH- or -S(=O)<sub>2</sub>:

$$R_{1}$$
 $R_{2}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{1}$ 
 $R_{15}$ 
 $R_{15}$ 
 $R_{16}$ 
 $R_{12}$ 
 $R_{13}$ 
 $R_{13}$ 

$$R_{42} - N^{+} - R_{40}$$
 (IV).

wherein  $R_1$  to  $R_{37}$  each independently represents a hydrogen atom, a straight-chain, branched or cyclic alkyl or alkoxy group, a hydroxyl group, a halogen atom or  $-S-R_{38}$  in which  $R_{38}$  represents a straight-chain, branched or cyclic alkyl or aryl group, with the proviso that two or more of  $R_1$  to  $R_{15}$ ,  $R_{16}$  to  $R_{27}$  and  $R_{28}$  to  $R_{37}$  may be bonded to each other to form a ring containing one or more selected from the group consisting of a single bond, a carbon atom, an oxygen atom, a sulfur atom and a nitrogen atom, and

 $R_{39}$  to  $R_{42}$  each independently represents a hydrogen atom or a straight-chain, branched or cyclic alkyl or aryl group:

$$\begin{bmatrix}
\begin{pmatrix}
R_1 \\

\end{pmatrix}_1 \\

\vdots \\
R_2
\end{bmatrix}
\xrightarrow{A}
\xrightarrow{A}
\xrightarrow{A}
\xrightarrow{B}
\xrightarrow{B}$$
(VIII)

wherein X represents a sulfur atom or an iodine atom, with the proviso that the plurality of X's may be the same or different,

 $R_1$  and  $R_2$  each independently represents an alkyl or an aryl group, with the proviso that the plurality of  $R_1$ 's, if any, may be the same or different, the plurality of  $R_2$ 's, if any, may be the same or different, and  $R_1$  and  $R_2$ ,  $R_1$  and  $R_2$ , and  $R_3$  and  $R_4$  and  $R_5$  and  $R_6$  and  $R_8$  and

A and B each independently represents a hydrocarbon structure connecting between  $X^{+}$ 's, with the proviso that at least one of connections of  $X^{+}$ 's with A or B indicates a structure in which  $X^{+}$ 's connected are in the same conjugation and the plurality of A's, if any, may be the same or different,

I represents 0 or 1, with the proviso that when X is a sulfur atom, the number l of  $R_l$ 's connected to  $X^+$  represents 1, and when X is an iodine atom, the number l of  $R_l$ 's connected to  $X^+$  represents 0,

m represents an integer of from 0 to 10, and

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- 18. (currently amended): A positive-working resist composition comprising:
- (A) at least one <u>compound</u> selected from the group consisting of compounds represented by the formulae (a') and (I) to (IV) in combination,
- (C) a compound having a partial structure represented by the following formula (VIII) and a counter ion capable of generating an acid upon irradiation with one of an actinic ray and a radiation, and
  - (D2) a resin increasing the solubility in an alkali developer by the action of an acid:

$$Ra - O^{-}$$
 (a')

wherein Ra represents a hydrogen atom, a substituted or unsubstituted  $C_6$ - $C_{16}$  aryl group, a substituted or unsubstituted  $C_1$ - $C_{20}$  straight-chain, branched or cyclic alkyl group, -COO or  $-SO_3$ :

$$R_{4}$$
 $R_{5}$ 
 $R_{6}$ 
 $R_{6}$ 
 $R_{1}$ 
 $R_{15}$ 
 $R_{10}$ 
 $R_{11}$ 
 $R_{12}$ 
 $R_{13}$ 
 $R_{13}$ 
 $R_{14}$ 
 $R_{12}$ 
 $R_{13}$ 

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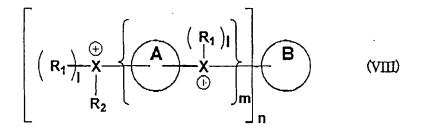
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$$R_{16}$$
  $R_{17}$   $R_{24}$   $R_{25}$ 
 $R_{20}$   $R_{22}$   $R_{23}$ 
 $R_{18}$   $R_{19}$   $R_{23}$   $R_{26}$   $R_{27}$   $R_{27}$ 

$$R_{42} - N^{+} - R_{40}$$
 (IV)

wherein  $R_1$  to  $R_{37}$  each independently represents a hydrogen atom, a straight-chain, branched or cyclic alkyl or alkoxy group, a hydroxyl group, a halogen atom or  $-S-R_{38}$  in which  $R_{38}$  represents a straight-chain, branched or cyclic alkyl or aryl group, with the proviso that two or more of  $R_1$  to  $R_{15}$ ,  $R_{16}$  to  $R_{27}$  and  $R_{28}$  to  $R_{37}$  may be bonded to each other to form a ring containing one or more selected from the group consisting of a single bond, a carbon atom, an oxygen atom, a sulfur atom and a nitrogen atom, and

 $R_{39}$  to  $R_{42}$  each independently represents a hydrogen atom or a straight-chain, branched or cyclic alkyl or aryl group:



wherein X represents a sulfur atom or an iodine atom, with the proviso that the plurality of X's may be the same or different,

 $R_1$  and  $R_2$  each independently represents an alkyl or an aryl group, with the proviso that the plurality of  $R_1$ 's, if any, may be the same or different, the plurality of  $R_2$ 's, if any, may be the same or different, and  $R_1$  and  $R_2$ ,  $R_1$  and  $R_2$ , and  $R_3$  and  $R_4$  and  $R_5$  and  $R_6$  and  $R_7$  and  $R_8$  and

A and B each independently represents a hydrocarbon structure connecting between  $X^+$ 's, with the proviso that at least one of connections of  $X^+$ 's with A or B indicates a structure in which  $X^+$ 's connected are in the same conjugation and the plurality of A's, if any, may be the same or different,

I represents 0 or 1, with the proviso that when X is a sulfur atom, the number I of  $R_1$ 's connected to  $X^+$  represents 1, and when X is an iodine atom, the number I of  $R_1$ 's connected to  $X^+$  represents 0,

m represents an integer of from 0 to 10, and

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19. (currently amended): The positive-working resist composition according to claim 17, wherein the component (A) is at least one <u>compound</u> selected from the compounds represented by the formula (a) and the formula (I) or (II) in combination.

- 20. (original): The positive-working resist composition according to claim 17, further comprising (E) a nitrogen-containing basic compound.
- 21. (original): The resist composition according to claim 13, wherein the actinic ray or radiation is selected from the group consisting of electron ray, X ray and EUV ray.